



User Manual

NOTE: To ensure this system works safely and to its fullest potential, please read the User Manual before use, and keep it handy for future reference. See important safety information on Pages 7-8.



Thank you for purchasing Acesonic's AM-170 250-Watt (@ 4 Ohms) Professional Mixing Amplifier. Acesonic takes pride in providing its customers with only the most advanced and highest quality products on the market. With proper care and use you will get many years of satisfying use from your Acesonic product.

Be sure to keep original packaging in case re-shipping is required for returns or repairs.

First Things First

Before using your AM-170, take a few simple steps:

• Check to see that your local power outlets supply the correct voltage for the AC input.

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- Do not open the device as there are no userserviceable parts inside. For repairs, contact the local distributor, an authorized service center or Acesonic's U.S. headquarters.
- Care and cleaning directions are included in this User Manual, but preventive measures are good common sense. Do not use the device in areas that are wet or prone to dampness. Always allow sufficient room around the device to provide sufficient air flow for cooling.
- When the device will not be used for a long period of time, disconnect the power plug from the wall, as well as the back of the unit, and remove all connecting cables for proper storage.

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System Components

Your Acesonic AM-170 unit is designed for years of enjoyment. Please take a moment to review the following instructions for its proper use and care.

Included Accessories

Your AM-170 includes the following items:

- 1 AM-170 Mixing Amplifier
- 1 Remote control
- 1 AC power adapter cord
- User's Manual, Warranty Card

If you are is missing any of these items, contact your Acesonic dealer at once.

Product Features

The AM-170 allows you to connect mixer, player or other audio devices directly to its stereo RCA audio inputs for instant sound. You also have great flexibility in output choices.

- 80+80W @ 8 Ohms maximum output
- 125+125W @ 4 Ohms equivalent output
- Four A/V inputs selector
- Microphone volume control
- Microphone bass, middle and treble control
- Microphone echo repeat and delay control
- Music bass, middle and music treble control
- Music balance control
- Five 1/4" microphone inputs: 3 front, 2 rear
- Music effect bypass switch
- Dynamic sound enhancer Enhance a full range of frequencies for both music and vocals
- Fully digital, color LCD display
- Record line output and subwoofer output
- One pair banana speaker outputs

Initial Setup Considerations

This basic setup guide provides simple, step-by-step instructions for setting up your AM-170 system, along with a complete diagram of the back panel connections and switches. Audio systems vary, so you may need additional and/or longer cables, adaptors, etc., to connect your system in the way(s) you want. For any questions, please contact your dealer or Acesonic technical support.

Front Panel Operations

Refer to the Figure A at the top of page 3 (right).

1. KEY CONTROL - The line of buttons allows you to raise or lower the key by six (6) semi-tones. The center button is the original (natural) key, and flat is to the left while sharp is to the right.

2. MASTER MICROPHONE VOLUME – This dial controls the master volume for all three micro-phone inputs. Turning clockwise raises the volume.

3. POWER ON/OFF button - Turns the AM-170 on or off.

4. MUSIC CONTROLS - These control the volume, balance and tone (Treble, Mid and Bass) of the music output from all input sources.

5. MICROPHONE TONE - These controls adjust the Treble, Mid and Bass tone for all microphones that are in use.

6. MICROPHONE ECHO – These controls adjust the Repeat, Volume and Delay settings for Echo.

7. INDIVIDUAL MICROPHONE VOLUME – These controls adjust the Volume independently for Mic 1, Mic 2 and Mic 3.

8. MICROPHONE INPUTS – Three 1/4" input jacks for microphones.

9. MASTER MUSIC VOLUME – This control adjusts the Master Volume for music coming from any of the sources.

10. AUTO SELECT – This button enables the unit to scan and detect the signal automatically (BGM, AUX, DVD and CDG). When the signal is detected and identified, the scanning will stop and you will see the input source indicator light confirming the selection (*see Item #11, below*).

11. INPUT SELECTION – This button selects the input source in manual mode. You can switch input among BGM, AUX, DVD and CDG. The selection will be reflected by the appropriate signal indicator.

12. 3D SOUND AND MUTE – This button selects 3D Sound, for enhanced music and vocal audio, as well as Mute. The button will toggle from off to these two functions, then back to off on a third press.

13. MPX – This button will select among Stereo (no light) and Left/Right, which will be indicated by the appropriate indicator light (L or R) as shown on the panel above and to the right of the button.

14. IR REMOTE RECEIVER - The IR Receiver



that takes commands from the Remote Control is located here. Do not obstruct line of sight access to this portion of the display during use. 15. INFORMATION DISPLAY WINDOW – This color display shows a range of information, as well as the frequency levels of the program material.



Back Panel Operations

Refer to the Figure B directly above.

1. MICROPHONE INPUTS – These two 1/4" jacks are alternate, back-panel inputs for Mic 1 and Mic 2. Use front panel knobs to control volume and tone.

2. VIDEO INPUTS – This line of Video inputs that take RCA connectors from the various source inputs. Each Video input is associated with the Left and

Right Audio inputs directly below (see Item #3, below).

3. AUDIO – These Audio inputs, Left and Right, accept source inputs (BGM, AUX, DVD and CDG).

4. PRE – These RCA jacks allow you to send the signal to an external signal processor via the Ouput jacks, and receive the processed signal back via Inputs.

5. VIDEO OUT – This RCA output jack works with the Audio outs below it (*see Item #6, below*) to supply a composite signal to an external device.

6. AUDIO OUT - RCA jacks for Audio out.

7. REC OUT AND LINE OUT – These RCA jacks are for sending Audio to external recording units or other devices.

8. SUB AND MIC OUTPUTS – The SUB RCA jacks send Audio signals of appropriate frequency to subwoofers. The MIC jacks send High and Low signals to other audio devices.

9. SPEAKER CONNECTIONS – The Left and Right pairs of posts connect to your speakers.

Remote Control Operations

1. KEY CONTROL – The b and # keys adjust the pitch up and down by semitones, while the center selection (natural symbol) returns the program material to its original key.

2. MIC VOLUME – The + and – buttons control the Volume of the microphone(s) being used.

3. MUSIC VOLUME – Increase or decrease the music master output Volume with the + and – buttons.

4. SOURCE SELECTIONS :

- The AUX button selects the external source connected to the AUX INPUT on the back panel.
- The BGM button selects the external source connected to the BGM INPUT on the back panel.
- The DVD button selects the external source connected to the DVD INPUT.
- The AUTO button enables the automatic input detection on the AM-170 to select the source.
- The CDG button selects the external source connected to the CDG INPUT on the back panel.

5. 3D SOUND – This button toggles the 3D Sound enhanced audio between off and on.

6. MUTE – This button toggles Mute between off and on.

7. MPX – This button selects the various Audio mix settings, toggling among Stereo, Left and Right.

Care & Maintenance

Use only a slightly dampened cloth to clean the AM-170, and dry off with a clean towel. Keep the unit in an area free of excessive moisture, and always allow 10. SOURCE INPUTS – The jacks in this location accept inputs from BGM, AUX, DVD and CDG.

11. S-VIDEO OUT – This output jack sends an S-Video signal for input to TVs and TV-connected devices that use the format.

12. VOLTAGE SELECT – This switch selects between 115 and 230 volts for AC power.

13. AC INPUT – This is where the power cord connects to the back of the AM-170.



sufficient room around the unit for airflow. This will prevent the AM-170 from overheating.

As with all audio and electronics gear, do not use the device except as described in these instructions.

Troubleshooting

Symptom Will not turn on	Possible Cause AC power adapter cord is incorrectly attached or not plugged into outlet	Solution(s) Check the AC adapter and the AC outlet connections, as well as the voltage selection switch Check the fuse below the AC adapter and see if it is broken
No audio can be heard, audio signal meter shows signal	Incorrect input source selected	Check to make sure the correct corresponding button is pressed on the input selector in relation to your audio source
	MUSIC VOL control is down	Check to see if MUSIC VOL control is all the way down; if so, turn the knob slowly clockwise
	Poor or incorrect output connection to speakers or other external units, or bad/defective cables, wires or connectors	Double check all output connections to speakers or other units.; try using another set of cables/cords; make sure to turn POWER OFF before reconnecting cables
No audio can be heard, audio signal, meter DOES NOT show signal	Poor or incorrect input connection from audio source unit, or bad/defective cables, wires or connectors	Double check all output connections to speakers or other units.; try using another set of cables/cords; make sure to turn POWER OFF before reconnecting cables
No microphone signal can be heard	Microphone controls are turned down	Check MIC MASTER VOL and all MIC VOL controls to see if they are turned down; if so, turn the knob slowly clockwise
	Poor or incorrect input connection from microphone, or bad/defective cables, wires or connectors	Double check all microphone connections; try using another cable/cord; make sure to turn MIC MASTER VOL down before reconnecting cables
Unpleasant howling and screeching heard from speakers	Microphone feedback	Place microphones farther away from speakers; face microphones away from speakers
Remote Control not functioning	Batteries are dead, dying or positioned incorrectly	Replace with fresh batteries or double check battery positioning

Figure C



Technical Specifications

Maximum Output80W+80W@8 Ohm Max
RMS (continuous) Output 125W+125 W@4 Ohm RMS
Microphone Input Sensitivity
Music Input Sensitivity
Microphone Frequency Response
Music Frequency Response
Microphone EQTreble: +/- 5dB (10KHz), Bass: +/- 5dB (100Hz)
Music EQTreble: +/- 5dB (10KHz), Bass: +/- 5dB (100Hz)
Speaker Wattage Impedance 4 Ohm–8 Ohm
Supply VoltageAC 110V-120V or AC 220V-240V (manual switch)

FCC Advisory, Safety Warnings & Safe Use Mises en garde, precautions et procedures de sûreté





The lightning-with-arrowhead symbol inside a triangle alerts the user that potentially dangerous voltage in the product enclosure may constitute a risk of electric shock.



The exclamation point within a triangle alerts the user to important operating, maintenance, and servicing information in this User Manual.

CAUTION

To reduce the risk of electrical shocks, fire and possible injuries, you should not

- remove screws, buttons, antennae, jacks or any part of the enclosure; or
- expose the product to rain or moisture.

FCC ADVISORY (U.S.A.)

1. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try correcting the problem by one or more of the following measures:

- Reorienting and/or relocating the receiving antennae
- Increasing the distance between the radio/TV equipment and the AM-170
- Connecting the radio/TV equipment to an outlet on a different circuit than the one into which the

receiver is plugged

• If necessary, consulting the dealer or an experienced radio/TV technician for help

2. **Important**: When connecting the AM-170 to audio equipment, use only high-quality, shielded cables such as what is supplied with this product. Follow all installation instructions and do not modify the equipment in any way, as this could void your FCC authorization to use the device in the U.S.

FOR CANADA/POUR LE CANADA

Caution: To prevent electric shock, match the wide blade of the plug to the wide slot, and fully insert.

Attention: Pour eviter les chocs electriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusquau fond.

This product does not exceed the Class B limits for radio noise emissions from digital devices as set out in the Canadian standard for interference-causing equipment ("Digital Apparatus, ICES-003" from the Department of Communications).

Cet appareil numerique respecte les limites de bruits radio electriques applicables aux appareils numeriques de Classe B prescrites dans la normesur le materiel brouilleur ("Appareils Numeriques, NMB-003" edictee par le Ministre des Communications).

Safe Use Instructions

1. Read and follow these instructions, keep them handy for reference, familiarize yourself with the product's operation and heed all safety warnings.

2. Do not use this product near water, on wet surfaces or in places where moisture may accumulate. Do not expose the device to dripping or splashing, and do not place items filled with liquids – such as vases, beverages, etc. – on top of the device. Clean only with a dry cloth.

3. Do not block any ventilation openings or set device on carpets or rugs. Maintain sufficient room on all sides for airflow.

4. Do not position the device on or near radiators, stoves or other electrical equipment (such as amplifiers) that produce heat.

5. Do not defeat the safety purpose of a polarized or grounding-type plug. A polarized plug has two blades with one wider than the other, while a grounding-type

plug has two blades and one prong. The wide blade and the prong are safety features. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

6. Protect the power cord from being walked on or pinched, particularly where it is plugged in to an electrical socket and the point where it exits from the rear of the device.

7. Only use the attachments and accessories specified by the manufacturer.

8. Use only with a cart, stand, tripod, bracket or table specified by the manufacturer or sold with the device. When using a cart, use caution when moving the cart.

9. Unplug the product during lightning storms or when it will not be used for long periods of time.

10. Refer all servicing to qualified service personnel. Servicing is required when the unit has been damaged in any way, such as when the power-supply cord or plug is damaged, liquids have been spilled or objects introduced into the enclosure, the device has been exposed to rain or moisture, the product does not operate normally or it has been dropped.

11. Never push objects of any kind into this product, through jacks or other openings, as they may contact dangerous voltage points or short-circuit components, thus causing fire or electrical shock.

12. This product should be operated only from the type of power source indicated on the product label and in this User Manual. If you are not sure of the type of power supplied to your home, consult your

product dealer or local utility.

13. An outside antenna system should not be located in close proximity to overhead power lines, or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, be extremely careful not to touch such power lines or circuits, as contact with them could be fatal.

14. Do not overload wall outlets or extension cord as this can increase the risk of fire, power outages or electrical shock.

15. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or with the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

16. Following any servicing or repair of this product, ask the service technician to perform the appropriate safety checks to ensure the product is in proper operating condition.

17. The product should not be mounted to a wall or ceiling except as recommended by the manufacturer, with a mounting accessory recommended by the manufacturer.

18. If your product is not operating correctly or exhibits a marked change in performance, and you are unable to restore normal operation by following procedures in this User Manual, do not attempt to service it yourself. Opening the enclosure may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.



AM-170 250-Watt Professional Mixing Amplifier

One (1) Year Manufacturer Warranty & Lifetime Technical Support

Designed in U.S.A.

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